



TDC Review - Agenda

Peter Wilson
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TDC Review
9/14/00

-
- 9:00 Introduction - Peter*
 - 9:10 TDC Status - Myron*
 - 10:15 Questions and discussion*
 - 11:00 Executive Session*
 - 11:45 Closeout*



TDC Review - Charge to Committee

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“The purpose of this review is to evaluate the current state of the TDC project from a technical standpoint. The committee should make recommendations on the proposal to build additional TDCs and on the associated cost and schedule estimates. The committee should evaluate the experience with board checkout to date, the nature and frequency of the observed TDC failures, and the expected long term reliability of the TDC modules. The committee should recommend an overall course of action to the head of the CDF FE/Trig subsystem and to the CDF upgrade project managers that they believe will lead to a full complement of reliable TDC's installed at CDF at the earliest date.”



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Issues to Consider

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- Long term reliability of boards:
 - Do we need new boards for reliable operation of CDF?
 - Do we need more experience to be sure we understand all reliability issues?
- TDC performance:
 - Have the technical issues been addressed (e.g. buffer chip failures)?
 - Will more experience uncover other issues?
 - Recently passed point of 50% of TDCs installed
 - We are about to start a 4-6 week commissioning run
 - **This is our first opportunity to get experience with chamber occupancy and understand real readout time**



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Issues to Consider

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- Purchasing new boards:
 - How many should we purchase?
 - What changes should be incorporated?
 - When should they be ordered?

- CDF schedule:

| | |
|---------------|------------------------------------|
| Now-Nov 1 | Commissioning Run |
| Mar 1, 2001 | Start of Run II |
| Mid-Late 2001 | Beginning of data used for Physics |



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Deployment in Systems

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| | Ordered | Installed | Location | Access |
|-------------------|---------|--------------------------------------|-------------|---------|
| LVDS | 405 | (165 w/ small via, 240 w/ large via) | | |
| COT | 315 | 175 | On detector | ~1/week |
| Hadron Cal | 16 | 1 | 1st floor | at will |
| Spare | 74 | | | |
| ECL | 135 | (135 w/small via) | | |
| Muon | 106 | 54 | 1st floor | at will |
| CLC | 1 | 1 | 1st floor | at will |
| Spare | 28 | | | |
| Total | 540 | 231 | | |